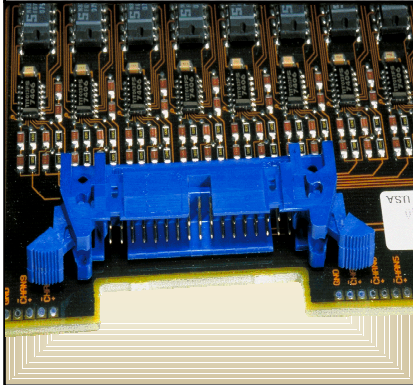


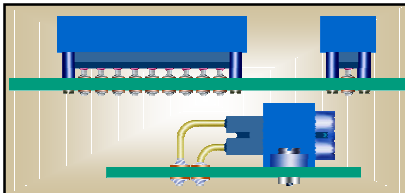
THROUGH-HOLE SOLDERING SOLDERED CONNECTORS



SOLDERED CONNECTORS

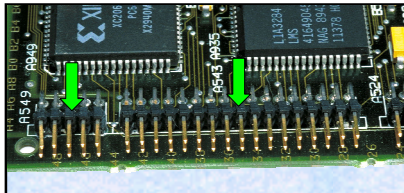
Board-mounted connectors provide an electrical / mechanical solution to the problem of providing reliable input and output of power and signals to the printed wiring assembly (PWA). While the incorporation of connectors into a PWA may increase reliability, bulk, and weight concerns, their use facilitates testing and field replacement, without the hardwiring of harnesses and cables to the PWA.

Connectors are considered to be components, and the mounting and soldering requirements are identical to those imposed on other through-hole components.



PREFERRED GENERAL REQUIREMENTS

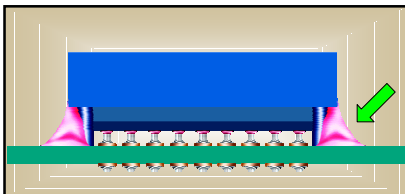
The connector body shall be parallel to and in full contact with the mounting surface. Standoff steps on all leads shall rest on the lands, and lead protrusion shall meet requirements. Mounting features (i.e.: board lock tabs or fasteners) shall be fully inserted and set.



PREFERRED KEYING

Connectors should be keyed to prevent incorrect mating / interchanging with similar sized / colored connectors.

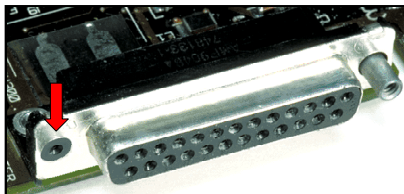
[Best Workmanship Practice](#)



ACCEPTABLE ALTERNATIVE MECHANICAL MOUNTING

Connectors not supplied with a locking tab or fastener system shall be secured with staking compound. Staking compound shall not be applied over conductive surfaces.

[Best Workmanship Practice](#)



UNACCEPTABLE MISSING MOUNTING / CONNECTING HARDWARE

Missing mounting / connecting hardware can interfere with the proper mating of the connector.

[Best Workmanship Practice](#)

NASA WORKMANSHIP STANDARDS



NATIONAL AERONAUTICS AND
SPACE ADMINISTRATION

JOHNSON SPACE CENTER
HOUSTON, TEXAS USA 77058

Released:
06.27.2002

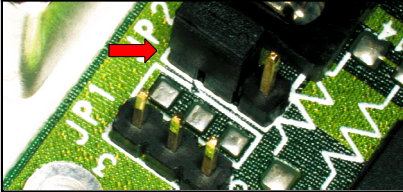
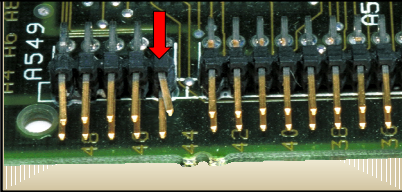
Revision:


Revision Date:

Book:
6

Section:
6.07

Page:
1

| THROUGH-HOLE SOLDERING SOLDERED CONNECTORS (cont.) | |
|---|---|
|  |  |
| <p>UNACCEPTABLE JUMPER BLOCKS</p> <p>Jumper / selector blocks are not recommended for use in flight applications, without prior written approval. Provisions shall be made to ensure positive locking of jumper to prevent movement / unauthorized removal.</p> <p>Best Workmanship Practice</p> | <p>UNACCEPTABLE MECHANICAL DAMAGE</p> <p>Connectors exhibiting mechanical damage (i.e.: exposed base metal, dings, bent pins, broken mounts, missing EMI inserts, etc.) shall be rejected. Pins exhibiting minor bending may be reworked with approved tooling and processes.</p> <p>Best Workmanship Practice</p> |

| NASA WORKMANSHIP STANDARDS | | | |
|---|--|-------------------------|------------------------------|
|  | NATIONAL AERONAUTICS AND SPACE ADMINISTRATION | Released: 06.27.2002 | Revision: |
| | JOHNSON SPACE CENTER HOUSTON, TEXAS USA 77058 | Book: 6 | Revision Date: Page: 2 |